

## AMENDMENTS TO THE CLAIMS

Please amend the claims as shown in the following complete listing of all the claims.

1.(Currently Amended)      A method for noninvasive screening of a human eye for the presence of a ferromagnetic foreign body, said method comprising:

providing at least one magnetic sensor, and means for processing sensed signals from  
said at least one magnetic sensor;  
positioning said magnetic sensor in proximity to an eye of the patient;  
applying a magnetic field to said eye;  
moving at least one eye of the patient;  
sensing a ~~plurality of responses~~ changing response from said eye with said magnetic  
sensor, ~~at~~ as said eye moves through a plurality of gaze orientations; and  
outputting data corresponding to the magnetic susceptibility of a ferromagnetic foreign  
body within said eye.

2.(Original)    The method recited in claim 1, wherein said outputting of data corresponding to magnetic susceptibility comprises outputting of data corresponding to the size of a ferromagnetic foreign body within said eye.

3.(Original)    The method recited in claim 1, wherein said outputting of data corresponding to magnetic susceptibility comprises outputting of data corresponding to the location of a ferromagnetic foreign body within said eye.

4.(Original)    The method recited in claim 1, further comprising moving said at least one eye of the patient from side to side.

5.(Original)    The method recited in claim 1, further comprising moving said at least one eye of the patient up and down.

6.(Original)    The method recited in claim 1, further comprising moving said at least one eye of the patient in a predetermined pattern.

7.(Original) The method recited in claim 6, further comprising:  
providing a gaze fixation target visible to said eye of the patient;  
moving said gaze fixation target in said predetermined pattern; and  
following said gaze fixation target with said eye of the patient.

8.(Original) The method recited in claim 6, further comprising:  
providing a plurality of gaze fixation targets visible to said eye of the patient;  
arranging said plurality of gaze fixation targets in said predetermined pattern; and  
sequentially gazing at each of said gaze fixation targets, in a predetermined order, with  
said eye of the patient.

9.(Original) The method recited in claim 1, further comprising:  
positioning said magnetic sensor in proximity to a first eye of the patient;  
providing a gaze fixation target visible to a second eye of the patient;  
moving said gaze fixation target in a predetermined pattern; and  
following said gaze fixation target with said second eye of the patient.

10.(Original) The method recited in claim 1, further comprising:  
positioning said magnetic sensor in proximity to a first eye of the patient;  
providing a plurality of gaze fixation targets visible to a second eye of the patient;  
arranging said plurality of gaze fixation targets in a predetermined pattern; and  
sequentially gazing at each of said gaze fixation targets, in a predetermined order, with  
said second eye of the patient.

11.(Original) The method recited in claim 1, further comprising moving said at least one  
eye of the patient in a random fashion.

12.(Original) The method recited in claim 1, further comprising providing a magnetic  
sensor which functionally operates at room temperature and minimizes noise due to temperature  
fluctuations at said magnetic sensor.

13.(Original) The method recited in claim 12, further comprising:  
providing an applied field source; and  
applying said magnetic field with said applied field source.

14.(Original) The method recited in claim 13, wherein said applied field source includes an applied field coil, and further comprising supplying current to said applied field coil to generate said magnetic field.

15.(Original) The method recited in claim 14, wherein said supplying of current comprises supplying alternating current to said applied field coil.

16.(Original) The method recited in claim 14, wherein said supplying of current comprises supplying direct current to said applied field coil.

17.(Original) The method recited in claim 13, wherein said applied field source includes a permanent magnet, and further comprising positioning said permanent magnet in proximity to said patient to apply said magnetic field.

18.(Original) The method recited in claim 12, further comprising:  
mounting said at least one magnetic sensor in a head mounted display; and  
rejecting any spurious magnetic signals caused by motion of said head mounted display  
with respect to any ambient magnetic field.

19.(Original) The method recited in claim 1, further comprising providing a SQUID magnetic susceptibility detection system.

20.(Original) The method recited in claim 19, further comprising:  
providing an applied field source; and  
applying said magnetic field with said applied field source.

21.(Original) The method recited in claim 20, wherein said applied field source includes an applied field coil, and further comprising supplying current to said applied field coil to generate said magnetic field.

22.(Original) The method recited in claim 21, wherein said supplying of current comprises supplying direct current to said applied field coil.

23.(Original) The method recited in claim 20, wherein said applied field source includes a permanent magnet, and further comprising positioning said permanent magnet in proximity to said patient to apply said magnetic field.

24.(Original) The method recited in claim 1, further comprising:  
providing a flexible container holding a deformable material whose magnetic susceptibility properties approximate those of human tissue; and  
placing said flexible container between said magnetic sensor and said eye of the patient.

25.(Currently Amended) The method recited in claim 1, further comprising:  
providing a plurality of said magnetic sensors at a plurality of remote locations;  
providing a central computer processing station;  
positioning each said remote magnetic sensor in proximity to an eye of a patient;  
applying a magnetic field to each said eye;  
moving each said eye and sensing the changing magnetic susceptibility ~~responses~~ response with an associated magnetic sensor, at as said eye moves through a plurality of gaze orientations;  
transmitting said ~~plurality of changing~~ magnetic susceptibility ~~responses~~ response to said central computer processing station via a communication system; and  
interpreting said changing magnetic susceptibility ~~responses~~ response with said central computer processing station.

26.(Currently Amended) The method recited in claim 25, further comprising transmitting said ~~plurality of said~~ changing magnetic susceptibility ~~responses~~ response to said central computer processing station via the Internet.

27.(Original) The method recited in claim 25, further comprising providing real-time interactive feedback between said remote source-sensor units and said central computer processing station.

28.(Currently Amended) The method recited in claim 25, further comprising performing instantaneous autointerpretation of said changing magnetic susceptibility ~~responses~~ response using artificial intelligence.

29.(Currently Amended) The method recited in claim 25, further comprising performing instantaneous autointerpretation of said changing magnetic susceptibility ~~responses~~ response using a neural network.